

IN THE CLAIMS

Please cancel claims 1-9 and add new claims 10-29. 

10. In an electric motor, having a stator (11), a rotor (12) that is rotatable in the stator (11), a rotor shaft (13) received rotatably in rotor bearings (14, 15), and decoupling means for reducing the emission of airborne and structure-borne sound between the stator (11) and the rotor bearings (14, 15), the improvement wherein said rotor bearings (14, 15) are fixed on a housing (10) that surrounds and grips the stator (11), said decoupling being achieved by means of a spring-elastic suspension of the stator (11) from the housing (10).

11. The electric motor of claim 10, wherein said spring-elastic suspension of the stator (11) from the housing (10) comprises decoupling elements (28), at which the stator (11) is retained by nonpositive and/or positive engagement are secured to the inner wall (211) of a housing pot (21), spaced apart from one another in the circumferential direction.

12. The electric motor of claim 11, comprising at least three decoupling elements (48), offset from one another by the same angle of rotation, each extending over the entire axial length of the stator (11).

13. The electric motor of claim 11, wherein said decoupling elements (28) comprise an elastomer and, preferably by the two-component process, are jointly injection-molded onto the plastic injection-molded housing (21).

14. The electric motor of claim 12, wherein said decoupling elements (28) comprise an elastomer and, preferably by the two-component process, are jointly injection-molded onto the plastic injection-molded housing (21).

15. The electric motor of claim 11, wherein said decoupling elements (28) have a C-shaped profile and protrude radially to the rotor shaft (13) away from the housing pot (21) with both legs (282, 283) of the C, which are joined together by a longitudinal rib (281), and wherein means for coupling the stator (11) by positive engagement are formed in each of the legs (282, 283) of the C.

16. The electric motor of claim 13, wherein said decoupling elements (28) have a C-shaped profile and protrude radially to the rotor shaft (13) away from the housing pot (21) with both legs (282, 283) of the C, which are joined together by a longitudinal rib (281), and wherein means for coupling the stator (11) by positive engagement are formed in each of the legs (282, 283) of the C.

17. The electric motor of claim 15, wherein said stator (11) has a pole tube (30) equipped with permanent magnet poles (29), wherein on one leg (283) of the C of the decoupling elements (28), an annular-segment slot (31) is provided for positive-engagement insertion of one face end (301) of the pole tube (30), and wherein on the other leg (282) of the C of the decoupling elements (28), a positive-engagement element cooperating with a positive-engagement element embodied on or in the jacket of the pole tube (30) is provided.

18. The electric motor of claim 16, wherein said stator (11) has a pole tube (30) equipped with permanent magnet poles (29), wherein on one leg (283) of the C of the decoupling elements (28), an annular-segment slot (31) is provided for positive-engagement insertion of one face end (301) of the pole tube (30), and wherein on the other leg (282) of the C of the decoupling elements (28), a positive-engagement element cooperating with a positive-engagement element embodied on or in the jacket of the pole tube (30) is provided.

19. The electric motor of claim 17, wherein the two positive-engagement elements form a tongue (32) and groove (33) of a dovetail connection (34).

20. The electric motor of claim 19, wherein the groove (33) of the dovetail connection (34) is machined into the jacket of the pole tube (30), and the tongue (32) of the dovetail connection (34) protrudes from the free end face, oriented toward the pole tube (30), of the leg (282) of the C of the decoupling elements (28).

21. The electric motor of claim 11, wherein the housing pot (21) is closable with a housing cap (22) that carries a fastening flange (26), and that the rotor bearings (14, 15) are disposed in the pot bottom (23) of the housing pot (21) and in the housing cap (22), respectively.

22. The electric motor of claim 12, wherein the housing pot (21) is closable with a housing cap (22) that carries a fastening flange (26), and that the rotor bearings (14,

15) are disposed in the pot bottom (23) of the housing pot (21) and in the housing cap (22), respectively.

23. The electric motor of claim 13, wherein the housing pot (21) is closable with a housing cap (22) that carries a fastening flange (26), and that the rotor bearings (14, 15) are disposed in the pot bottom (23) of the housing pot (21) and in the housing cap (22), respectively.

24. The electric motor of claim 14, wherein the housing pot (21) is closable with a housing cap (22) that carries a fastening flange (26), and that the rotor bearings (14, 15) are disposed in the pot bottom (23) of the housing pot (21) and in the housing cap (22), respectively.

25. The electric motor of claim 15, wherein the housing pot (21) is closable with a housing cap (22) that carries a fastening flange (26), and that the rotor bearings (14, 15) are disposed in the pot bottom (23) of the housing pot (21) and in the housing cap (22), respectively.

26. The electric motor of claim 16, wherein the housing pot (21) is closable with a housing cap (22) that carries a fastening flange (26), and that the rotor bearings (14, 15) are disposed in the pot bottom (23) of the housing pot (21) and in the housing cap (22), respectively.

27. The electric motor of claim 17, wherein the housing pot (21) is closable with a housing cap (22) that carries a fastening flange (26), and that the rotor bearings (14, 15) are disposed in the pot bottom (23) of the housing pot (21) and in the housing cap (22), respectively.

28. The electric motor of claim 18, wherein the housing pot (21) is closable with a housing cap (22) that carries a fastening flange (26), and that the rotor bearings (14, 15) are disposed in the pot bottom (23) of the housing pot (21) and in the housing cap (22), respectively.

29. The electric motor of claim 19, wherein the housing pot (21) is closable with a housing cap (22) that carries a fastening flange (26), and that the rotor bearings (14, 15) are disposed in the pot bottom (23) of the housing pot (21) and in the housing cap (22), respectively.